Music and theat the German Tribune in Germany Hamburg, 24 August 1980 Niloeteenth Year - No. 954 - By air A WEEKLY REVIEW OF THE GERMAN PRESS ISSN 0016-88558

As early as 1882 musicians in Berlin that Germany has castles and founded a Philharmonic Orchestra, and from 1960 to 1963 the unique "Philharmonie" at the Kemperplatz in Berlin was built. 2,200 terraced seats with the podium in the centre. A place for great conduc-

tors, for great concerts. It shows

palaces, cities and industry but also unusual temples of the arts. Other examples are the theatre set on a monumental flight of outdoor stairs in the medieval town of Schwäbisch-Hall; the Baroque garden theatre in

Hanover-Herrenhausen; # theatre in the palace of Sch gen near Mannheim, founde 1749, and the Munich Open Bavarian National Theatre, 1811, burnt down later and re its full splendour in 1963. And grand and elegant music les

Bonn helps Warsaw with export credit

folish party chief Edward Gierek has called off his visit to Hamburg where he was to have met the Chancellor, Helmut Schmidt. The Polish Ambassador to Bonn, Jan Chylinski, said the change in plans was because of internal problems in Poland. He said that another date, at the beginning of December, had been proposed for a meeting hitween the two leaders. Bonn government spokesman Armin Grünewald said another die, before the election in October, was possible. He said that the strikes in Poland would not influence the decision by a consortium of German bankers to issue credits of DM1.2bn . Bonn will supply a third of the cash as an export guarantee.

Poland, in the words of a patriotic march dating back nearly 200 years to the days of partition, is not lost yet. This is a sentiment echoed by con-

temporary Polish economists even though their country is in the throes of in economic crisis.

Optimism was shared by experts at the Bonn Economic Affairs Ministry a days before Polish Party leader dward Gierek was due to visit.

Their assessment of economic ties beween Poland and the Federal Republic f Germany was: "Not at all bad, as a arting point."

Similar views were voiced by the Conlederation of German Industry (BDI) in Cologne, where a spokesman sald:

"The Poles deserve respect, not to say idmiration, for the way they are coping with their economic difficulties."

Was this just fair-weather politics ncouraging noises prior to the Hamurg talks between Mr Gierek and hancellor Schmidt?

There were signs this was all such line words might amount to. Companies that actually traded with Poland were tight-lipped on how they rated trade ties past and future.

It was either the holiday season or the oard member responsible was away on business or the company spokesman hose to make do with a few non-committal words.

Businessmen were only prepared to divulge their true feelings provided they were assured of absolute discretion: no tames (especially company names), no pack drill!

Given what they had to say, this dethe for discretion was hardly surprising: Problems? The Poles have them by the bucket?" "Poland is the toughest of all last bloc countries", "Products are poor and no returns are accepted" and "Failure all along the line."

"The Poles are up to their necks in it," a banker said, feeling it was hardly necessary to go into depressing detail ind give chapter and verse.

Even bearing in mind that West German businessmen are invariably given to lamenting economic ties with Poland looked far from promising.

The message had been spelt out with customary diplomacy six months previously by Otto Wolff von Amerongen, head of the Standing Conference of Chambers of Commerce and Industry and chairman of the Committee on Trade with the East Bloc.

The Cologne industrialist said Poland was going through a spell of poor form and advised economic policymakers on

both sides to think in terms of a middledistance runner rather than a sprinter. A sprint specialist, he explained, was

soon at the end of his tether, and this was something neither side could be interested in.

Yet oddly enough the starting point for further development of trade ties really is none too bad. Poland has tapped a source of hard currency earnings that long lay fallow for lack of cash towards capital outlay.

Warsaw has finally started mining commodities such as copper, coal and vanadium, which is one of the four most sensitive raw materials.

Metallgesellschaft, Frankfurt, have signed two contracts with Poland for the supply of copper, each for 40,000 tonnes

The first was concluded with the aid of an export credit guarantee by the Bonn government, the second was underwritten by banks without Bonn credit

The copper deliveries have been paid for in advance, allegedly to enable the Poles to boost mining capacity, but this is both unusual and controversial.

There have been rumours that Poland has spent the copper money to make ends meet in other departments, but be that as it may, Poland has gained access to foreign exchange.

The vanadium project, worth an estimated DM750m, has also been backed hy Bonn. It is due to run on a longerterm basis. Deposits have yet to be mined. Deliveries are not expected to start for another 10 years at least.

Polish coal is similarly intended to earn hard currency. Now coal has regained prestige as an energy source, import restrictions in West Germany have

Poland, the world's fourth-largest coal producer and second-largest exporter, is to supply the Federal Republic with 2.5m tonnes a year. '

shortly would mean a further one million tonnes a year from 1985.

The other 100 joint ventures are noth-



This way, gentlemen . . .

Four Republican Party members of the US Senate visited Bonn this month. They discussed foreign policy and security issues with Chancellor Helmut Schmidt. From left, pictured with Herr Schmidt, are Thad Cochran, William S. Cohen, Howard Baker

ing spectacular. Britain, France and Italy have all pulled off major vehicle plant deals with Poland; not so West Germany, which has emerged emptyhanded in this department.

This was partly because trade ties were not expanded until late in the day, after the Bonn-Warsaw treaties were

It was also because Bonn, unlike Britain. France or Italy, has steadfastly refused to subsidise interest on loans out of the taxpayer's pocket.

The only large-scale project envisaged. a coal gasification plant that was to have cost DM2.6bn, has been shelved.

Technological developments in this sector were proving so rapid the Poles preferred not to go firm on any one technique at too early a stage.

Still, a DM250m pilot plant is to be built in collaboration with Krupp's, so there is a prospect of coming back to the larger-scale project at some future

A proposed joint venture to mine silver deposits likewise came to grief even though West German companies and banks were in its favour.

But Bonn refused to underwrite the deal, much to the relief of all concerned in retrospect. The high price of silver was what made the project so attractive, and much of its attraction has faded now the price has plummeted.

Businessmen complain most frequently however, about day-to-day trading. Poland would appear still to have difficulty

Doubts remain over method

of bridge-building

in supplying enough manufactured goods for export.

There is said to be no continuity. while further shortcomings attributed to the country's economic system include failure to meet deadlines and poor product quality. Polish import-export permit proce-

dures often take so long that products a German importer was keen to buy are no longer marketable once the go-ahead Poland has even been unable to deliver such predictable and well-established

seasonal produce as Christmas geese and

ducks. Last Christmas a leading German department store was left in the lurch. Not for a moment do the Poles dany that such mishaps occur. Some time ago Janusz Kaszurba of the Polish Foreign Trade Institute called on exporters to

pull their socks up.

Exporters would be blacked, he said, who supplied poor quality goods or failed to meet delivery deadlines.

But Poland's foremost problem is indebtedness, which could well affect trade ties with West Germany. The heavier the debts, the less foreign exchange is available for imports.

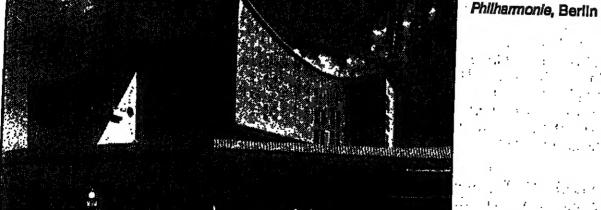
What is more, after five poor harvests in succession Poland is once again having to spend its hard-earned foreign exchange on grain and oil shipments.

Poland is heavily in debt. Its current indebtedness to the West totals roughly \$20bn, about a fifth of DM9bn, is owed to West Germany.

The Soviet Union is in a much better position as a debtor. It has \$13bn in debts but credits worth \$9bn. Poland's credits in the West total a mere \$1.2bn.

So far the Poles have always been able to meet interest and capital deadlines, but the weight of debts is extremely heavy, so much so that it makes Western creditors feel uneasy.

This year alone Poland is due to repay Sobn in capital and interest on joans Continued on page 3 Adams of the Private of the



DEUTSCHE ZENTR FUR TOURISMUSE Beethovenstrasse 69, D-6000 Frankli

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National-Oper. Munich

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INTRA-GERMAN AFFAIRS The Wall is still a symbol of GDR Instability

SCIENCE "Biological computer" of the housefly a key to questions about man

ENGINEERING

Although the final act of Helsinki applies only to Europe, the Soviet Union by invading Afghanistan has violated most of its universally valid principles. Yet again it has become clear that East and West mean different things with the same words and in important

spheres have diametrically opposed aims.

A further source of initiations the conflict on sims, hitherto buried under various compromise formulations, is being brought to life again in the run-up to the second CSCE follow-up conference due to be held in Madrid this autumn.

This means that the preparations for the second Helsinki control conference are becoming a permanent series of con-

Five years after Helsinki, detente has reached its limits. In this time American power has visibly dwindled, while the Soviet Union has strengthened its posttion to an unparalleled extent. It has doubled its arms expenditure and extended its influence from Angola to

Brezhnev's statement on the fifth anniversary of the signing of the Helsinki agreement that the agreement made developments "irreversible" underlines that the Soviet Union regards Helsinki primarily as the sanctioning of its political and territorial possessions.

In view of the Soviet Union's power potential, attempts to make international law distinctions between the inviolability and the "alterability" of frontiers and thus to keep future developments open run the risk of degenerating into semantic glass bead games.

Even the cosmetic attempts to increase military security by confidencebuilding measures such as advance notice and observation of manoeuvres have been dealt with so selectively by the Soviet Union that they have not even improved the atmosphere.

The Soviet Union is even more restrictive about human rights, freedom of movement and freedom of opinion.

Muted though the hopes of the democracies were in the summer of 1975, the exile of Nobel Peace Prize winner Andrei Sacharov, the exile of other regime critics before the Olympic Games and the quashing of the Helsinki groups who insisted on the realisation of the rights laid down in the Helsinki agreement would not have been considered possible by Western negotiators at

The same applies to the barriers erected against the free flow of information and opinions, which could have brought a breath of fresh air into the oppressive atmosphere of closed communist societies.

Of course there have also been positive results. The East Bloc's need for Western goods and the West's need of energy ensures that economic relations between the two blocs flourish.

But this would probably have been so even without Helsinki. The CSCB has given the smaller East Bloc states slightly more scope -- as cautious criticism of the Soviet invasion of Afghanistan in some East Bloc countries shows.

Finally, since Helsinki emigration and travel possibilities have improved and regulations on the reuniting of families and East-West marriages have been relaxed.

Nuclear arms could be used to exert However, the reluctance of the East political pressure and, given the inclina-Bloc on these issues underlines that the tion of the superpowers to intervene in democracies in Helsinki by accepting local conflicts, strengthen smaller counthe political and territorial status quo: in their resolve to develop an in-

IN THE BALANCE OF POWER

Risk of detente aims drowning in words

THE GERMAN TRIBUNE

permanent recognition,

Such a concession can only be justified if the greater liberality and humanity given in return are such as to keep alive the hope of long-term change.

The Madrid CSCE Conference, due to begin on 11 November, will assess progress made so far. The first follow-up conference in Belgrade from autumn 1977 to spring 1978 failed because of the unbridgeable gap between the West's and the East's values.

President Carter's human rights campaign caused the representatives of the Communist states to block any further developments and even to prevent the words "human rights" being mentioned in the final declaration in Belgrade.

From September 9 onwards diplomats from 33 European countries, the USA and Canada will be preparing the ground for the conference proper. Already the same fundamental conflict on aims is evident. On the fifth anniversary of the Helsinki agreement Brezhnev said that the Madrid follow-up conference would address itself mainly to disarma-

President Carter, on the other hand, has stressed that although he wants to see military matters discussed he does not want them to overshadow human rights questions.

Behind these stances is a fundamental opposition and a challenge to the West Europeans, whom Brezhnev wants to win over. Brezhnev is trying to introduce a number of disarmament proposals in

Bonn rated the 10-year-old nuclear non-

proliferation treaty the key to affective

non-proliferation, Klaus von Dohnanyl

Minister of State at the Bonn Foreign

Office, told the Geneva review confe-

rence this month. It would continue to

endorse the treaty while fully acknow-

ledging the rights of all to develop atoms

for peace. He was gratified that all

signatories had fulfilled their treaty obli-

gations inasmuch as nuclear devices had

purchased nor manufactured by non-

nuclear signatories. But the danger of

further proliferation remained as long as

there were still countries that were not

Mr Brezhnev's special offer to mark the tenth anniversary of the nuc-

lear non-proliferation treaty was by no

means tied to serve the cause of non-

He repeated his undertaking that the

Some countries are more likely to take

perpower's blackmail bid. They can

this as a threat than as a reassurance, as

hardly be blamed in the circumstances.

to allow others to join their ranks but

they have not refrained from discrimina-

tion as the treaty enjoined them to do:

undertaking to reduce their alarming

stockpiles of weapons of nuclear de-

struction.

Still less have they made good their

The superpowers have taken care not

Soviet Union would never use nuclear

weapons against nuclear have-nots.

neither been made available to others nor

have received something that can be Madrid - to prevent a possible conabjured at any time in exchange for demnation of the Soviet invasion of Afghanistan and a discussion of human

> Carter, in accordance with the best American traditions, is sticking to his guns, urged on by the six senators and six congressmen on the CSCE committee and the 1.000-plus Helsinki committees throughout the USA. All of these are determined that the letter and the spirit of the Helsinki agreement should be kept.

To prevent the Madrid followup conference degenerating into a display of antagonism between East and West. both sides will probably be prepared to give equal attention to all aspects of the final act and to introduce new elements. Bonn Minister of Foreign Affairs Genscher has several times spoken in favour of such an approach.

Genscher also wants at least part of the Madrid conference to be at Foreign Minister level (at Belgrade it was at ambassadorial level).

Among the new elements that could go on the agenda in Madrid are an extension of the confidence-building measures and discussion of a European disarmament conference.

By suggesting an extension of confidence-building measures, the Western states are taking up again their Belgrade proposals for: publication of military expenditure, advance warning of manoeuvres involving fewer than 25,000 troops, advance warning for other major troop movements, and rules for mutual

Brezhnev offer

reassurance

or a threat?

dependent nuclear deterrent of their

The second review conference in Ge-

neva was held in conditions that had de-

teriorated substantially in comparison

with the first conference, held five years

ago, even though Articles 1 and 2, deal-

ing with proliferation, acquisition and

production of nuclear weapons, have

The number of threshold countries

has risen alarmingly, according to the

Stockholm International Peace Research

Institute. By the end of the century is

expects the number of nuclear powers to

have increased from the present five

(America, Russia, Britain, France and

Nine are already considered potential

nuclear installations that are not subject

tion, as Afghanistan has shown President Carter was suddenly prepared to

ar weapons, while 10 min

been observed.

China) to 40,

Geneva conference,

manoeuvre observation guanning THE GENERAL ELECTION fectiveness.

These proposals also form with the West's proposals for sea nying measures at the MBFR w

Poland and France have both proposals for a European disama conference - but the aims behind proposals are clearly different

The French proposal, backed by Mile Bonn coalition parties have wants arms control limited to call clashed over use of the second votetional weapons but is not prepare October's election. The vote is impordiscuss nuclear weapons. The Sant in an election system, which is run
Union, via the Polish proposal stong both preferential and proportional
nuclear arms on the agenda also.

Whereas Errors transfer 18 of the second vote on 5 Oc-

Whereas France wants all of the said that the second vote on 5 Ocfrom the Atlantic to the Urals indights will be the politically more imporin the System of control, the biant one "and therefore the decisive vote Union wants these controls limbs for Chancellor Helmut Schmidt." Volker the 250 kilometre strip of land the Hummel, deputy spokesman of the FDP borders - the area for advance repelled: "This is absurd and nasty."
of manosuvres and manosuvre on He said that the Social Democrats

tion laid down at Helsinki, should not pretend that a second vote-Finally, there are big different at the FDP was not also a vote for opinion between East and West at Helmut Schmidt, as the FDP has already form which such a disarmament of committed itself to a coalition with the

ence should take. The West wants SPD.

a conference integrated into the Ci The whole wrangle is being cannily and its procedures to ensure equality and the party's leader Hans-Dietrich tion of the United States and Canteriors, said on TV that the very surther East Bloc want the conferences is the said that his party depended on completely separate from the CCI. He said that his party depended on completely separate from the CSG: to influence public opinion in that single second vote. And Hummel

Five years after Helsinkl and folk ming. ing the Soviet invasion of Afghair. Both have overlooked - or have they? the Madrid conference will be tough

n its interest to get every first vote

cabinet. By this he was referring to Min-

ster of Foreign Affairs Genscher (FDP),

ister of Economic Affairs Lambsdorff

(Süddeutsche Zeitung, 13 August 1980)

Continued from page 1

made in the early 70s. Next year a fur-

ag a third of the total as an export

Wolfgang Hoffmann (Die Zeit, 15 August 1980)

uer \$3bn will fall due.

Schmidt rules It will be vital not to get bog down in mufual recriminations, to vent the Soviet idea of detente as 6 out reshuffle ible from gaining ground and to s the Soviet Union using disame There will be no reshuffling of major proposals as a means of driving a ze 1 cabinet posts if the coalition wins between West Europe and the the election, the Chancellor, Herr Franz-Joseflind Schmidt, has said. Schmidt said he saw no reason what-

(Rheinischer Merkur/Christol Vit. 16 Augst HR ever to change the "cornerstones" of his

nistan, Mr Carter, a staunch advocate! Defence Minister Apel (SPD). non-proliferation, had stalled on chim "Who have I forgotten?" Schmidt les of enriched uranium to India. idded. Parties to the treaty faced anoth Asked whether the Ministry of Post

problem arguably more irksoms (and and Transport were to be split into two easier access to fissile material pool aparate ministries, Schmidt said he did natories seem to have.

peace and the provision of part knowhow without discrimination proved a mixed blessing.

enforcement agency, the Internation Atomic Energy Agency in Vienna Internation hampered atoms for peace in the 18 with Poland reached agreement World to the advantage of countries with the Polish Bank Handlowy on enjoy a nuclear monopoly.

Dieter Schiet

Dieter Schiet**

Dieter Schiet**

Children and Children an

Publisher: Friedrich Reinsoke. Editor of the that the coal mined is exported to sub-action: Atexander Ahthony, English
sub-action: Simon Burnett, Distriction Bank Joans will total DM800m, incluGeorgine Picone.

Friedrich Reinsche Veiteg Gimbhi 23 Schoone Action
Hamburg 78, Tel. 122 85,1 Jelan 02:1473

to international supervision.

They include Egypt and Israel, India and Pakistan - all countries with confilets that are as yet unresolved. None of them are parties to the non-proliferation

A country said to be keen on developing nuclear knowhow is Iraq, which enjoys close nuclear ties with France Ironically, an Iraqi diplomat chaired the Conflict is anothema to non-prolifera-

supply India with fissile material wit Finance Minister Matthofer (SPD), Min-

Before the Soviet invasion of Alp (FDP), Justice Minister Vogel (SPD) and

not consider this a question of principle. Article 4, dealing with stoms !

The non-proliferation treaty and

gedit guarantee earmarked for Polish The German Tribuit Callield development on the understan-

Annual superintion DM 35. Printed by Druck- and Verlegebaus Friedrich (18 de l'hr Gemein wirtschaft) and the Bremen Burmenthal, Délribulad in the USA (18 consortium).

MAILINGS, Inc. 540 West 24th Birsel, New York 1901.

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Vote-splitting becomes an issue between coalition parties

the final composition of the Bundestag. At first glance it seems as if the

number of voters involved are relatively few, In past elections, more than 90 per cent of voters have given their first and their second votes to the same parties. . In 1961, for instance, only 4.3 per cent of voters gave their first and second

votes to different parties.

Vote splitting became more fashionable in 1969 with 7.8 per cent and reached an all-time high in the 1972 election. In the last election in 1976 the percentage then dropped to 6.6 per cent. The reason for this was that in 1972 the SPD actively supported the splitting tacic, where as in 1976 it merely tolerated

From this viewpoint, vote-splitting is more of a social-liberal phenomenon. However as one per cent of voters equal 400,000 votes and at the last election another 300,000 votes would have given Helmut Kohl victory, the CDU / CSU in this election will also be encouraging voters to give both their votes to the CDU / CDU.

Kurt Biedenkonf started this campaign recently when he said: "The CDU needs every second vote." For him, splitting is a form of cheating.

And Peter Radunsky, CDU chief of publicity, says that vote-splitting is a form of behaviour bordering on mental disorder. He asks: "How can a voter give. his vote to the Opposition CDU and his second to the government FDP?"

Genscher has an immediate answer to this question. He says regular CDU voters should split their votes to express their displeasure at the choice of Franz Josef Strauss as Shadow Chancellor.

The prospect does not seem to bother Radunsky. The potential number of voters here is very low. He fears people who do not vote because of Strauss more than splitters.

The Allenbsbach Opinion Research Institute says that 22 per cent of CDU voters do not want to be disloyal to the party on the one hand and the on the other they do not want to vote for

...And psephologist Wildemann found

- the fact that the second votes decide in his poll that 70 per cent of all voters want Helmut Schmidt as Chancellor and that many CDU / CSU voters simply regard Strauss as a second choice.

CDU electoral strategists fear that many CDU / CSU supporters will register their dislike of the choice of Strauss by not voting

'And polister Nelle-Neumann of the Allensbach Institute also sees grave dangers for the CDU / CSU: "When a Chancellor is as popular as Helmut Schmidt, vote-splitting can spell danger for the Opposition."

Vote-splitting has a considerable tradition among FDP voters - a fact which SPD election planner Karl-Heinz Bentele attributes to the higher educational levels of liberal voters.

In 1972, for instance, 52.9 per cent of those who gave their second votes to the FDP gave their first to the SPD and only 38.2 per cent gave their first to the

This trend continued in 1976, with 29.9 per cent of FDP voters giving their first vote to the SPD.

All parties face the problem that only one in seven voters knows that it is the second and not the first vote that is politically decisive. The FDP takes full advantage of this linguistic misunderstanding by presenting itself as a small party and asking voters at least to give it their second votes

Pollster Noelle-Neumann disapproves of the confusion about the role of the second vote. She says it is a cardinal failure of the electoral system that no normal person can understand it.

According to polls, 25 per cent of voters are toying with the idea of giving their second vote to the FDP, which is allegedly fighting for its life, would be in a better position than at any other time in post-war German history.

And a further bizarre twist: if half of all CDU voters and half of all SPD voters gave their second vote to the liberals, the FDP would be the strongest party in the Bundestag and Hans-Dietrich Genscher could become Chancel-Hans Peter Schütz

(Stuttgarter Nachrichten, 12 August 1980)

How the poll operates

All the parties taking part in the general election are particularly, anxious to win second votes. The big parties hope thus to win a majority, the smaller ones to survive.

According to the National Electoral Law, the Bundestag consists of 518 MPs; 248, or half of the MPs elected in West Germany (excluding West Berlin) are elected directly in their constituencies by first votes,

The other half get to Bonn via the Land lists of their parties. The remaining 22 Berlin MPs are nominated by the Berlin Parliament.

Voters in West Berlin have no second vote.

With first votes, the candidate in a given constituency who has won the most votes is elected directly to the Bundestag. If a constituency candidate gets fewer votes than his rival, the votes for this candidate are lost and do not benefit his party. ..

The purpose of the first vote is to ensure that individuals are returned to Bonn because of their personal capacities rather than party affiliation

But it is the second votes which determine the parties' percentage share of votes. Second votes have no effect on the constituency result but are counted up for the whole Land.

A party's share of second votes determines the number of MPs it sends o Bonn from a given Land.

Second-vote candidates are then nominated in the order of the Land lists if they have not already been elected directly.

Second votes also decide the five per cent question. According to electoral law, only parties who have received at least five per cent of all second votes are eligible to sit in the Bundestag.

As the FDP for example has not won any direct mandates for years but has relied entirely on second votes, a drop below five per cent of its second votes would mean the end for

(Frankfurter Rundschau, 12 August 1980)

Deace without freedom is the "quiet I of the graveyard" according to Shadow Chancellor Franz Josef Strauss.

And freedom without peace is "an anxious state of waiting" says Strauss in answer to the German Trade Union Federation (DGB) catalogue of demands for the Bundestag elections.

The Shadow Chancellor's reply to the DGB's "electoral touchstones" fills 31 A 15 1 8 20 A

Strauss says that German should not be allowed to become Soviet westpolitik.

He said that this was not the sim of the Schmidt and Brandt governments but that nonetheless these had contributed towards Europe "gradually being faced with the terrifying alternatives between war and peace."

Strauss reaffirmed that the treaties with East Germany were binding "within the limits drawn by the Federal Constitutional Court." 1915 Jahr 1919

But he added: "We will never accept that these treaties divide Germany 1nto

Strauss spells it out for trade unions

two nations, a "capitalist" in the West and a "socialist" in the East.

'On the touchstone of social security Strauss objects to the CDU/CSU and its leading politicians being stamped as unsocial and hostile to wage-earners. He said this was party political and personal defamation.

Strauss said that the DGB's demand for more flexible retirement ages was desirable from the social policy viewpoint but hardly practicable in the foreseeable future given the situation of the pension insurances. "" "; "; "

'He said the CDU/CSU would reintroduce gross-wage-telated indexed pensions and improve the pension entitlement of mothers by including the time spent bringing up children as part of their entitlement!"

The CDU/CSU would: ensure that men and women were equally treated in. pension law. It also intended to improve the situation of non-working mothers over their entitlement, to maternity. payments, to introduce payments for bringing up children and to introduce a comprehensive programme of protections of the unborn child.

It aims to make possible full employment by pursuing full-blooded market economy policies!

He says he is counting on the "co-responsibility" and cooperation of the DGB. This would be all the more inportant in view of the findings of a study commissioned by the Bonn government predicting that by 1985 "there" would be 1.85 m unemployed in this

Strauss wrote: "I have been warning for years about the dangers to our eco-nomy from our East Asian competitors. Unfortunately I got very little support from the DGB.

(Bromer Nachrichten, 14 August 1980)

Could it happen again? True, shell-

ter, as Berliners were quick to dub the

dd Kongresshalle 25 years ago, cannot

be compared with prestressed concrete

The roof consisted of a shell a few

centimetres thick enclosed in a reinforced

ring. Bridges are massive structures

the mainstays of which can be several

Besides, a prestressed concrete bridge

has yet to collapse in West Germany, al-

though others have occasionally been

known to cave in under exceptional stra-

Bridge designers do not usually work

on the assumption that a heavy truck is

going to score a direct hit on the central

concrete bridges in particular are parti-

cularly safe in the event of known and

But you will probably not be entirely

reassured. If bridges are so safe why is it

there have been so many reports in

foreseeable mishaps, they insist.

no longer being made to last?

Bridges in general and prestressed

The people of the GDR were leaving the country by the thousands, voting with their feet.

East Germany could not have sustained this drain for another couple of weeks. As a result, the Warsaw Pact decided to erect this century's most shameful structure and to risk world peace if necessary.

The reaction by the then mayor of West Berlin, Willy Brandt, who said "the Wall must be done away with?" was normal and a clear moral stand. But it was illusory.

The Wall, a product of angst, is here to stay because East Germany's angst is as strong today as it was then.

But even sealed off as the GDR has been for the past 19 years, the Communist rulers of East Germany have been unable to consolidate their rule both politically and economically.

Cince the Berlin Wall was built 19 years ago, East Germany's communist leadership has been making its border with the Federal Republic of Germany "safer and safer."

Without the Wall, the exodus from the GDR would be even bigger today than it was before its construction, and the country would again be faced with a crisis of existence.

One of the elements responsible for the continued political instability of the GDR and hence for the continued existence of the Wall is the constantly growing affluence gap between the two Germanies.

Before the war, the productivity gradient was from the highly industrialised central Germany (today's GDR) down to the Rhine and the Alps.

The region marked by Magdeburg. Berlin, Dresden, Plauen and Eisenach was the centre of German mechanical engineering and the automobile and aircraft industries.

It also housed 40 per cent of Germany's chemicals industry. In 1938, it accounted for 65 per cent of all German

This year, the GDR will export goods worth 57 billion East German marks, i.e.

The Federal Republic of Germany's exports this year will amount to about

As a result. East Germany now accounts for only 9 per cent of overall German exports.

More than anything else, this proves the economic decline of that highly developed part of Germany - and the people there know and feel it.

But they are as unfamiliar with the reasons for the decline of their centrally morny as the people in the West are with the true factors that make up the superiority of a market economy.

Visitors to the Leipzig Fair are told by the locals that their standard of living is so low because East Germany exports too much. But this is not the crux of the matter, for both German stastes export about 23 per cent of GNP.

But since the convertible East German mark is worth only 60 pfennigs on international markets, the GDR exports goods worth DM2,000 per capita of population while the Federal Republic of Germany exports DM5,700 per capita. **INTRA-GERMAN AFFAIRS**

The Wall still a symbol of GDR instability

The West has been aware of this and even goes so far as to talk of "normalihas taken it into account in its policy more so than has been good for it. By understanding the needs of the GDR dictatorship it also had to go along with its immoral political repression, thus damaging its own moral position.

Bonn has forgone demanding that. basic moral values be upheld in the GDR only for the sake of obtaining a few concessions on the humanity front. It has had to pay for this with political and material assistance for the dictatorship in the other Germany.

The whole thing is a complicated web of double standards. But then, Bonn is not the first democratic government that has had its problems on this score. A similar situation existed during the Nazi

The mistake of our present Deutschswept under the carpet and that Bonn sation".

There can be no normal neighbourly relations between a free country and a dictatorship - and this is particularly so in a divided nation.

As a result, no normal relations have developed in the past decade. Instead. relations have been marked by a constant wheeling and dealing with the

Whenever the GDR needs economic aid it uses slight improvements for the people as a bargaining point, making sure, however, that the repression within its borders, which is vital for the regime, remains intact.

This will also apply to the forthcoming talks between Schmidt and Honeck-

The GDR's internal instability, which landpolitik is that this moral conflict is led to the construction of the Wall 19 years ago, has worsened.

Affluence gap continues to increase

And yet the shops in West Germany are full of goods.

It follows that the GDR does not export too much but produces too little. Despite inflation, unemployment and

diminishing growth in West Germany, the GDR constantly lags further and further behind

The average monthly net income of salaried people in the Federal Republic of Germany is just under DM1.800. compared with 780 East marks in the GDR. The buying power, however, where private consumption is concerned is roughly one to one for the two cur-

Even in the social security sector the GDR spends only one-third of the amount spent in West Germany, and annual savings in the West are five times those in the East.

The average assets of our working population are seven times higher than in

The GDR of today is a classical lowwage country. A saleswoman nets 500

he GDR's border security system is L switching more and more from minefields to special fences with automatic self-shooting devices, the Work Group 13 August told the press on the eve of the Berlin Wall's 19th anniversary. Since the construction of the Wall, East Germany has installed 42,000 of these devices along a stretch of some 410 kilometres. At the same time the minefields along the border were reduced from 593 to 280 kilometres.

The Work Group called these selfshooters the most flagrant violation of human rights in Europe because they use dum-dum ammunition.

Not only does the GDR thus violate international human rights agreements but also the 1907 The Hague Convention on war on Land which prohibits weapons that cause. "unnecessary suffering and irreparable wounds."

East marks, a skilled worker 800, a medium echelon manager between 1,200 and 1,500 and top managerial staff heading a company with a payroll of 10,000 to 30,000 make 2,500 East marks a

This alone shows why the communist leadership had to close its borders. Disregarding political convictions, people would leave East Germany en masse simply to triple their earnings.

West Germany will achieve a GNP of about DM1,500bn in 1980, compared with the GDR's 300bn marks.

We produce DM32.6 per worker per working hour compared with the GDR's 16 marks. In other words, East German productivity is only half that of West

The Wall has thus failed to achieve its objective, i.e. to consolidate the country economically and close the gap with the Federal Republic of Germany.

But it has been illusory from the very beginning to hope that the Wall was a temporary structure.

Granted, the GDR was at a disadvantage after the war. It received no Marshall Plan aid, had to pay more in reparations and lost four million people to the West between 1949 and 1961.

But even after the Wall was built. East Germany continued to fall behind that is the crux of the matter. (Der Tagesspiegel, 10 August 1980) Above all, the Communist not been unable to catch up economist the those weekends when just about everyen further and further behind.

To understand that the communist not those weekends when just about everyen further and further behind.

To understand that the communist not t

To understand that the GDR with their suntanned wives and families. exist without the Wall does not accepting this structure, for that spell the end of all political many in the middle of a bridge spanning one valley or other. That unspoilt

As a result, we cannot stop: the GDR time and again that i countryside seems a long way away, struction to the border guards he down there. to kill, its mines and booby input Do you remember reports about rifts draconian reprisals against people apply for exit visas can only be a and fatigue in prestressed concrete bridges? If not, you will surely recall an imposition on their democrati Berlin's Kongresshalle, the concrete roof of which caved in on 21 May. gotiating partner.

To pillory the GDR's political shaped structures like the Pregnant Oyshuman immorality is a must for a Germany if it is not itself by moral damage.

Those who say that we must sti too heavy a burden on the GDR's be told: how much should that a be permitted to impose on their Republic of Germany, and get away (Kieler Nachrichten, 13 Augus

Lingering hop for unity

hether or not there is a "Gar going answer" to the "German que: pylon. depends on people and government It is, however, certain that thereis interplay between the governed at: governing concerning reunificated

Willy Brandt has said that he mi ger intends to talk of "reunified and Helmut Schmidt has said th does not expect German unity it dom this century.

So far as the public is concern; those over 60 remember a dexact and undivided Germany.

Taking all this into account it is prising and encouraging that recent pe show that 67 per cent would opt for unification if they had a say hat that only 28 per cent are prepared: forgo this aim.

But since these 28 per cent that pose the Constitution and are proper to write off their fellow countyma: the other Germany, their number it pressingly high.

The desire for a united Germany! fared better than the hope for it. And since majorities can impose will on the government in a demontwo-thirds of the people have now h the onus on Bonn actively to punt unification and not to forfeit It bt,

communist wish for a divided Gene

for opportunistic reasons.

(Die Weit, 13 August

Border trend to self-shooting devices

The Work Group therefore intends to call on the Bonn government to raise the issue of these self-shooters at the forthcoming CSCE Follow-up Conference in Madrid,

Despite the murderous effects of these devices, the Wall claimed no lives in its 19th year, according to the Work

A total of 176 people have died along the German-German, border, since 13 August 1961: 106 along the border with West Germany and 70 along the Berlin Course him to digit off

The Work Group considers the due to the deterrent of the new water system along the border that the been no fatalities in the past 12 The number of attempted estimated lower than ever before during the per-

In 1977, there were still 721 care to West Berlin while in 1979 the ber dwindled to 463, and in the half of this year there were only The overall number of refugees drop from 6,011 in 1975 to 3,512 in 1979

Despite the fact that West Gentle "buys" an annual 1,100 to 1,300 post-prisoners and despite the 1979 and in East Germany, some 5,000 points prisoners are languishing in GDR 60 per cent of them for preparing tempting or abetting escapes

(Frankfurter Neus Presse, 12 August 1

ENGINEERING

Doubts remain over method of bridge-building

tenance? Why are the authorities busy beefing up regulations?

Why is the Bonn Transport Ministry currently circulating a discussion paper to all departments associated with bridge construction?

There are two main reasons why the endurance of prestressed concrete bridges has come in for review. In comparison with steel structures they are a relative new-comer, but for some time they have predominated.

By 1975 prestressed concrete accounted for 8 out of 10 bridges in the country. Prestressed concrete is the younger brother of reinforced concrete.

Plain concrete resists pressure but is poor on tensile strength and fairly brittle, so it is reinforced by steel rods at points where tensile strain is likely to

The concrete protects the steel from corrosion, at least where the casing is sufficiently thick and aggressive substances such as winter road salt do not nenetrate.

Bridge designers work on the assumption that rifts will develop in reinforced concrete, but they reckon they will be hairline rifts and evenly distributed.

in prestressed concrete steel rods are not set in the concrete; pipeline ducts are run through it and steel rods run recent years of alarming rifts and bridges through the ducts.

The rods are stressed once the form Why have bridges been closed to traff-

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grant from the branch

ic for comprehensive repairs and main- work has set and anchored against the concrete so as to press the concrete sections together.

These steel sinew make prestressed concrete much better on tensile strength and more likely than reinforced concrete to withstand heavy traffic and not develop rifts.

Prestressed concrete is more rigid and enables bridges to span greater distances at lower heights. Many economic techniques would be impossible were it not for prestressed concrete.

Besides, experts claim it costs less to maintain and service than other materials, which likewise cuts costs.

Yet after more than 20 years' experience in West Germany, including the usual teething troubles, queries remain. Are there shortcomings that are attributable to the system?

Have all foresceable influences been taken into account? Have serious mistakes been made in construction? It is not just a matter of safety but of costs and repercussions for future bridge con-

Rifts and rifts at section joints are issues that have gained notoricty. Section joints are the point at which one prestressed rod is linked to another.

Research and civil engineers agree that rifts are no problem as long as they are not wider than 0.2mm in prestressed

Wider rifts need repairing, especially at section joints where damp or even salt could seep through to the steel, causing corrosion.

Because of the variations in strain due to variations in traffic load and volume material fatigue would result, leading to one or more reinforcement rods snapp-

Bridgebuilders in West Germany have so far only come across a snapped rod once, and the discovery was made in time. Bonn Transport Minister Kurt Gscheidle promptly ordered priority examination of section joints in all bridges for which his department was respons-

Engineers have checked more than 1,600 bridges, over 400 of which included section joints. Preliminary findings indicate that whereas only 13 per cent or so of bridges without section joints had rifts, about 70 per cent of bridges with section joints had them.

One in six had rifts wider than 0.2mm, yet experts still agree that bridges with section joints are a suitable system. They enable designers to come up with particularly economic solutions.

What is more, rifts such as have arisen so far can, they say, be prevented by imposing more stringent regulations and improving design details.

But rifts are not the only defects inectors have come across, Koau saii been found to destroy surfaces and concrete casing of reinforcement steel has been found inadequate, just as ducts have been found faulty.

These shortcomings likewise lead to corrosion of steel set in the concrete. and inspectors and Herr Gscheidle have yet to comment in public on the extent of such damage and shortcomings.

Architects and civil servants agree, however, that serious deamage can only arise when several shortcomings coincide, Engineers and designers can, for

instance, make mistakes when drawing up the blueprint for a bridge.

Specific factors, such as the strain that occurs due to concrete heating while it sets or strain in the vicinity of section joints, have not always been taken into

Mistakes of this kind could be avoided in future by adapting construction procedures to the construction techni-

Some of the shortcomings that have been discovered are without doubt attributable to mistakes in construction. Bridgebuilders blame an increasing shortage of skilled construction workers and pressure to meet performance and schedule deadlines.

The authorities have accordingly beefed up regulations. Last year's review of the industrial standard for prestressed concrete took the findings into account:

But many experts feel not only standards but also tender practice could be improved. Contractors should be required to submit estimates of a bridge's lifespan and the overall cost of construction and maintenance.

Critics of the current practice are also considering the possibility of consulting independent authorities before contracts are awarded. What is more, they are clamouring for the construction industry to come clean on the mistakes it has made in the past.

Research engineers and building contractors occasionally wonder whether the current practice does quality sufficient justice. Safety margins often cost more than the authorities are prepared to pay.

Critics also call for the development of new techniques to improve bridge maintenance and make less frequent checks necessary.

They include corrosion protection for steel to make the steel less susceptible to mistakes during construction, concrete that is better resistant to road salt and improved quality control procedures during construction work.

Further training for civil engineers likewise leaves much to be desired. They ought, in particular, to be taught greater personal responsibility and less reliance on standards.

A number of experts doubt whether local authorities in areas remote from the mainstream of autobahns and trunk roads ane competent to carry out the necessary inspection work on bridges.

The Transport Ministry is not yet able to say what maintenance and repairs have cost so far. Detailed figures are due for publication in autumn.

Bavaria, however, has completed its survey of the 2,000-odd prestressed concrete bridges down south. Repairs needed in 50 cases are expected to cost about DM3.5m over the next five years.

At the beginning of 1979 there were about 6,900 prestressed concrete bridges in the Federal Republic of Germany. Some 1,600 have so far been checked.

Assuming them to be representative of the total, about five to seven per cent of bridges are in need of repairs ranging from odd rifts to full-scale demolition. : Complete, 100-per-cent safety is, of

course, out of the question. So the general public's worries about bridges remain only too understandable. "

Ancient Roman bridges span rivers and valleys to this day. The Romans deall with this problem in their own way. Their pontifex maximus, or supreme bridgebuilder, was little short of a god.

But we betide him if one of his bridges collapsed. It was not only the will of the Gods, it cost him his head. Brita Leckscheidt

er tette gest in an (Die Zeit, 8 August 1980)

foreign cultural relations.

SONNTAGS

Fixed public expenditure is taboo, as

cuts have to be made, attention turns to

In practice, though, there can be no

More than 40 per cent of the funds

try of Foreign Affairs culture budget.

A Wagner sequel when the Bayreuth festival is not quite enough

Some people in Bayreuth are so enthusiastic about Wagner that they are not satisfied with a festival performance lasting five and a half hours.

There is now hope for them. In the nearby town of Pegnitz a "delightful spactacle" is being held. All one needs is patience, openness and a little hu-mour - plus DM 200, But more of this

Wolfgang Wagner, played a major part in coining the phrase Bayrouth workshop, which means that open performances should be regarded primarily as work in progress.

Operas are constantly being revised and improved - and there is also the element of curiosity about what additional insights next year's performance may

Götz Friedrich's version of Lohengrin at this year's festival has proved to be a theatrically effective version but not absolutely overwhelming interpretatively.

In contrast with his version of Tannhauser at the Bayreuth festival, there was no clear description of social tensions. And stage set designer Gunther Uecker did not give him the same help here as in his brilliant Stuttgart version of Par-

Nonetheless, the circular revolving set as a substitute for the swan gave fasoingingly changing shadow outlines.

The great surprise of the evening was newcomer Woldemar Nelsson as collductor. He was here conducting his first Wagner opera and did so with elan and unswerving flair, constant movement and impressive structuring.

Also impressive were: Elisabeth Connell and the ever-present Ortrud and Leif Roar as Teiramund, driven by ambition and by his wife. Karan Armstrong made up for some technical errors of



Theatrically effective: Götz Friedrich's version of 'Lohangrin',

sound by the intensity of his performance, but Peter Hofmann as Lohengrin relied perhaps too heavily on his handsome appearance and magnificent ar-

His only real achievement was the telling of the story of the Holy Grail but that, after all, is what the opera is

Those for whom all this was not enough could then travel on to the Pegnitz happening, which took place in the Pegnitz Post Hotel.

was organised by Peter P. Pachi. one-time directorial assitant to Neuenfels and now a free-lance director (he will be directing Don Giovanni in Kas-

He was spurred on to the happening by August Everding who a year ago recounted that at the Milan Scala there were once ten intervals in which ten courses were served.

In Pegnitz there were six courses altogether, part of what was proclaimed to be a "total culinary work of art."

However the six courses offrom Franconian mushrooms on flaky pastry, coriander soup, duck liver sausages, and pigeon-breast to meringues and fresh raspberries) did not completely distract attention from the artistic highlights of which there were twenty: from the greeting of the faithful to Slegfried Wagner's musical fairy tale of the thick, fat panHalf-naked Rhine field through the dew-fresh gras Whenever the government needs to through the dew-fresh gras Whenever the government needs to make cuts, foreign cultural policy make cuts, foreign cultural policy

Three torch-bearing walter the protestations about the importance around, an incestuous tale of long of this aspect of foreign policy. Is told, Brunninilde sings Hell did. The President, the Chancellor and the in the solarium of the house a fainter of Foreign Affairs, as well as quite funny but very close to a fee Land prime ministers, who travel a siapstick.

Richard Wagner can be discorn tailly pass of stressing the importance more effectively through his own a dithe trinity of politics, economics and An endless poem — a "Not" Gets culture in our relations with other counts recited from horseback and these is recited from horseback and his tries.

of green shoes from a ladder Since Ludwig Erhard's government sentiments are after all exalted statement of 1965 foreign cultural relations have officially been described as flows an area.

A video tape shows an open s the "third pillar" of our foreign policy.

explaining all the complicated rise in Sunday and holiday speeches, poships in the Ring, coming to the illicians constantly pay lip service, to

Further the Allgement cuts have to be made in foreign cultural

clusion that it is good that the by of the Gods makes complicated sions on inheritance matters supply

There was an amusing comen policy, these speakers are conspicuous classical style in which competes a by silence. cal director Hans-Pater Mohr conta When additional EEC expenditure or Wagner's text with Offenbach's mix special aid to Turkey put extra strain on

The excerpt from Nestroy's lober the national budget, it was relatively easy parody was also amsuing but it is to make up for some of this by slashing pearance of Pegnitz chef Hear espenditure on culture. Pflaum as the Duke of Trabent with dessert creation was even more large is expenditure on personnel. So when those items without any fixed limits.

This was all effective as a reque where government and administration could have been improved in the as an append according to their own tion. The Pflaum brothers, who der judgement. need to advertise because their ma. rant is always booked out during the question of free spending in the Ministival, hope that apart from impositheir image this little happening will lax the strict ceremony of eating a impart a little more fun.

But the theatrical supplement dall be spicier and more peppery. Peter a rector Pachl should have taken a kind of chef Pflaum's book, Pflaum's only creations were hot and spicy.

Rainer Wagnit (Hannoversche Aligemeine, 13 Augus 1921

M ARTS EDUCATION

Culture 'always first to feel government axe'

allocated for foreign cultural spending seems to have had an idea of the situago to the over 300 German private schools abroad. These funds clearly cannot be cut in any given year, even though one can argue in some cases about how useful these schools are.

The school authorities rely on Bonn financial support and have taken on commitments accordingly.

Looking at other half of the foreign cultural budget, one finds narrow limits on possibilities of cutting. Organisations such as the Goethe Institute and the German Academic Exchange Service cannot have their funds for personnel or other fixed spending cut in the short term. And their programmes can hardly be reduced any further than they already have been.

So closer inspection reveals that there is no so very much scope for redistribution in the foreign cultural budget. This is something the initiated have

long known but which the politicians are constantly forgetting. There is an explanation for this which

Hans Amold gives in his recent book Auswärtige Politik - Ein Uberblick aus deutscher Sicht (Carl-Hanser Verlag).

"As political careers can hardly be built on foreign cultural policy, there is only sporadic interest in us in parlia-

Arnold, now ambassador in Rome and former director of the Culture department of the Ministry of Foreign Affairs

tion in the summer of 1980 when he completed his manuscript at the beginning of the year.

He writes: "Whenever public funds are tight, culture in general and cultural policy in particular are harder hit by cuts than other sectors of public spend-

Despite this pessimistic analysis from the experienced cultural politician Haus Arnold there is a small chink of light at the moment: the Bonn Minister of Finance seems, on the basis of his considerable foreign experience, determined to prevent all schematic and severe cuts.

It would be more than regrettable, it would be a serious political mistake it because of short term budget problems the Bonn government failed to realise at least some of the goals to which the Bonn government committed itself in

1977, with the agreement of the entire Bundestag, following the Commission of Enquiry on Foreign Cultural Relations.

This applies particularly to improvements in the media. The realistic and self-critical image of West Germany to be conveyed must be conveyed not only by the traditional means (and this includes exhibitions, books and concerts as well as films, radio and TV: programmes).

All the experts also agree that we need more intensive contact in this way with West and East Europe and in North and South America.

In 1979 the Bonn government promised the forthcoming publication of a "representative cultural magazine" for distribution abroad.

It will be interesting to see whether this relatively inexpensive project can at least be started this year despite the budgetary cuts.

The fate of this magazine will be of great interest to those who would like to take seriously the governments' statements on foreign cultural policy since Karl Moetsch

> (Deutsches Allgemeines Sonntagsblatt, 10 August 1980

he German Poland Institute has started its work in a house on the Mathildenhöhe, in Darmstadt.

The house was built by architect Joseph Maria Olbrich in 1901 - for himself. And a year ago, his heirs gave the house to the city on condition that it be used to further international cultural understanding. It was the ideal home for the new Poland Institute.

There is no shortage of institutions dealing with the most various aspects of East Europe out of political interest. Historians, linguists and literature scholars in the Slavonic studies departments of the universities produce outstanding

Scholars have for many years been studying aspects of East European history which are not at all related to contemporary politics: Gotthold Rhode in Mainz, for example, whose major work on the history of the Polish eastern border, published in 1955, is still considered an extraordinary achievement, or Wolfgang Kasack in Cologne, whose study of the Soviet Academy of Sciences in 1972 astonished even his Soviet colleagues.

But all this work, excellent though it undoubtedly is; has done little to lessen the general ignorance about the countries of East Europe.

What scholars write - in whatever discipline - is generally only read by other scholars and has no impact on the general public.

And the reader who wants to find out more about these countries has the problem of distinguishing between information and propaganda.

. In brief, our knowledge of the intellectual and cultural life of our East European neighbours comes to us at best through a number of filters and our chances of getting to know what is really happening culturally in a country like Poland for instance are minimal.

Furthermore we, know little about what the Poles know about cultural activities in this country, what interrelations exist, now these interrelations could be cultivated on improved, as the continue.

These problems are what the Darmstadt Poland Institute is going to have to tackle. The director of the Institute is Karl Dedecius who for a good quarter of a century has, as a translator, helped make modern Polish literature known in

A home found for Polish studies centre

the German-speaking world and in the West generally.

As a writer and essayist, Dedecius has been concerned to explain the inner connections of this literature, to portray Polish authors (for instance in Polish profiles, 1975) and to analyse the interrelations between the two neighbouring peoples

It is extremely fortunate that Dedecius could be persuaded to accept the post of director.

The Institute is a registered club, independent and non-profit-making. Any income is ploughed back into the Institute's work.

The President of the Institute is Marion Gräfin Dönhoff of Die Zeit. The chairman of the curatorium is Darmstadt's mayor Sabais.

Running costs are paid by the city of Darmstadt: the Rhineland Palatinate and Hesse share the costs for staff, the Bonn government and a number of major private foundations share the cost of the institute's projects.

Among the most urgent tasks are a bibliography, of German language literature on Poland (in conjunction with the Deutsche Bibliothek) and a kind of Who's Who, a list of the institutes organisations and people in West Germany concerned with Poland.

The Institute has already held a collooulum with Polish translators on what has been translated in both countries and what gaps need to be filled.

It has now sent out invitations to 12 Polish publishers and publishers' readers to make an information tour of German publishing houses in all probeing the most

The Institute also aims to build up a German-language library of Polish classics, a multi-volume compendium of contemporary Polish literature and studles of Polish cultural history in Fine

The main emphasis will be on literature and the study of literature i.e. lareas hardly toucheduby day-to-day noiltics but going iter despest roots of the cultural existence of the two neighbourling peoples at house of the Walter Selb

(Kölner StadifAnzelger, 6: August 1989)

Calculations pay off as German scientist uncovers huge Roman sundial

huge Roman sundial that has been A sought for conturies has finally It has been discovered by Professor

Edmund Buchner, director of the German Archaeological Institute. The Augustinian solarium is not just the biggest, but it is the most ingenious

sun clook ever made. It is in a hole eight feet deep. The Roman Emperor Augustus, as we know, was not always too favourably disposed towards the Germans and after three Roman legions were wiped out by the Germanii in the Teutoburger Wood he made his famous lament: "Varus, Varus,

give me back my legions." And now a German of all people is in the process of polishing up the same of

The discovery, says Buchner, was not luck, it was calculation.

But it was not a sudden inspired piece of calculation. Buchner has been working on his calculations for years. A publication on the gigantic device, of which the Peace Altar (Ara Pacis) and the mausoleum of the emperor are also part, had already been printed. All that was

missing were the proofs.
In summer 1979 the important Via Campo Marzio was barred to traffic for two months and the road was dug up so that the archaeologists could pursue their researches into antiquity.

But, Buchner says, this was precisely a place where the plaster and bronze of

the clock were stolen many conturies ago.

However, Buchner, from Straubing, in Bayaria, found what he was looking for in the cellar of No. 48 in the Via Campo Marzio. One goes down the dilapi-dated staircase which has not been used for years and sees a brightly lit hole and hears the continuous sound of an electrical pump; clear spring water gurgles over the smooth travertin plates onto which are carved a robust date line; and in Greek letters the star-circle sign of the virgin.

Buchner: "The days are those between 23 August and 1 September, between 23 March and I April. This water was known in classical times. It comes from the gardens of Sallust on the Pincio Hill and still supplies a number of wells."

But there were surprises this time too. Each phase of Roman history has "its own bronze letters and from the light, almost playful form of the dates which also contains such details as "end of the summer winds" the Professor concludes: "This is a new version of the sun clock original of Augustus is another half a metre deeper."

The solution to the riddle seems easy. Domitian ordered this new version because until the Tiber dams were built in the 1930s the field of Mars was always flooded, with the result that every year there were deposits of an average of one centimetre in thickness. The plaster and bronze lines of the months, days and hours were simply brought up higher,

In his researches into what he calls an equation with many unknowns Buchner had a classical counterpart - the brilliant mathematician Facundus Novus as Pliny called this mathematician, who

588 B.C. from Hellopolis in Egypt was the middle of the Altar of Peace. excavated in 1748 from what is now the Piazza del Parlamento. As early as the 15th century bronze lines were found. near the Church of San Lorenzo in Lucina. These were described by a classical... Peter's Square today, was worked commission led by the famous painter

of the Emperor Domitian (81-96). The But, it was Buchner who first disco-

vered the purpose of the whole dent and how the sun clock worked Acces ing to him these buildings are contained wonder of the world, like Egyptian pyramids or the Parthenon Athens, The Romans were ren

ligious and the whole magnificent tim ture contained so to speak the "Legend had if that Augustus

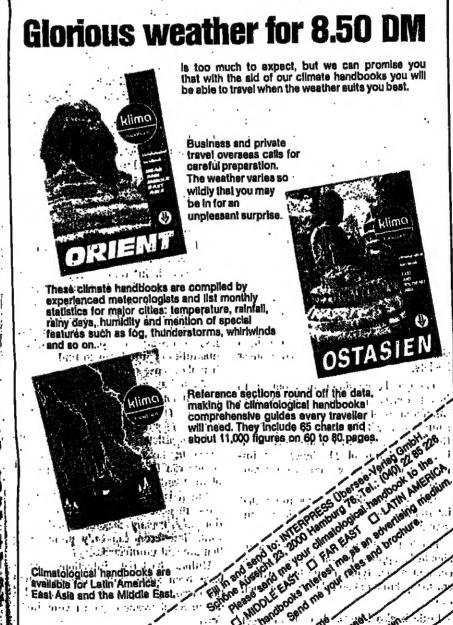
gotten by Apollo in the shape dissnake — a legend to which he negative jected - at the time of the winter stice, so that with him a new July new age begins.

was also an astronomer.

The hand of the block — a 29.42 rise on 23 September, the day on will metre obelisk of Psammetion II(594 shadow line is dead straight and ends 588 B.C. from Hellopolis in Egypt was "So Augustus is a gosmic emio

ment, the symbol of an era of peace, The whole structure, twice as big s

right down to the last centimetre.



'Biological computer' of the housefly a key to questions about man

THE GERMAN TRIBUNE

S cientists are trying to find out exact-ly what makes the common housefly complex network. To understand this

The experiments seek to establish the link between the nerve cells that process visual impressions and the muscles that carry out the flight instructions.

The fundamental question is: what are the principles by which the nerve cells combine to become biological compu-

It is a question which applies also to humans and ultimately answers to questions about the function of the human brain will be involved.

The scientists are at the Max Planck Institute for Biological Cybernetics in

Compared with the human brain and its 100 billion nerve cells, that of the fly seems rather primitive. It has a more 1

But this does not mean that it is easy

Professor Werner Reichardt, director of the Tübingen Institute: "The nerve cells of the fly's brain are linked with each other and interact accordingly.

complex network. To understand this grid system we must not only examine the individual cells but the whole system in all its complexity.

"It's the same as with a computer: you don't understand it if you look at its component parts alone."

Since the function of the brain rests on the cooperation of many cells, the malysis of it must take place on a high-

To start with, it is necessary to establish the mathematical and logical rules which the cells are connected with each other to form little cell groups.

The groups are again linked through special circuits, and it is this whole which enables this "computer" to per-

The signals transmitted by the nerves are processed along the lines of socalled algorhythms and converted into programmes for processing by the "com-

On the highest plane, the question is: how are these algorhythmically arranged

they tell us little about the suitability of

Many other experiments could be dropped if multiple tests carried out by different manufacturers for the same type of drug were discontinued. After all, it should be enough if one manufacturer carries out these tests on behalf of

It must be regarded as progress that Germany and Japan, two leading chemicals and pharmaceuticals manufacturers, now recognise each other's test results.

attention to the problem.

Gerd Rauhaus (Frankfurter Neus Presse, 7 August 1980)

The new prize is intended to draw

According to the Ministry, scientists by and large carry on with their animal experiments without considering the possibility of substituting them by other

What is the circuitry?

Why did the Tübingen researchers pick the housefly for their experiments? Professor Reichardt: "We are particularly interested in the 'data processing' within the visual system of the fly's brain. Like all insects, the fly has faceted compound eyes, each consisting of about 3,000 sections, the socalled ommatidia.

"Each of these ommatidia is a separate little eye equipped with sensor cells, so-called receptors, which convert light into nerve signals; in other words, electrical impulses that are conveyed by the

From there the signals are transmitted to a further neuron level, and it is there that the complex calculating processes take place that lead to the actual visual

The manner in which the insect flies and reacts to its visual environment depends on how the information has

To gain insights into the circuitry of this computer, the Tübingen researchers provide the fly with a carefully defined visual environment which enables them to measure the insect's flight reactions.

The aim of this behavioural study is to fathom the interaction between sensation and flight reaction. This is to enable the researchers to understand how the nerve cells function.

This is much more difficult than it seems because perception is almost impossible to pin down. Many sensations that are transmitted are converted into abstracts and thus lose some of the original information that has been

The apparatus needed is accordingly sophisticated. It can best be described as a flight simulator in the centre of which the fly is stationed. The whole thing is a cylinder, the inner wall of which can be decorated with various patterns, thus creating a visual environment.

The fly is kept stationary on its back, Continued on page 14

Accent is on prevention

The future belongs to purp inoculations against bacterial tions and similar new therapy or says microbiologist Profesion Brunner of Düsseldorf University

Writing in the medical journ utsches Atzteblett, he points of many bacterial diseases are on h crease despite modern pharmatent

Notwithstanding antiblotics in diseases in such highly developed trial countries as Germany with United States still rank fifth at are

conventional treatment of infection eases, the era of prophylactic is tions is now dawning, says he

against virus diseases such as pole become the order of the day, the lopment of inoculations against his

diseases against which we have to: oculations are either spreading or ing their own.

Professor Brunner stresses that ingitis, while claiming few live i the invention of antibiotics, has at minished in frequency. There are

ing the body's own defences have

Another promising field of resemble immunogenetics. There are many into tions that the defensive mechanisms be influenced through genetics. (Lübecker Nachrichten, 3 Augustif

to carry out the necessary tests.

"Even optimists cannot assured Telex 2 163 107
we could overcome cancer if odd." Telex 2 163 107

According to virologist Profession

In an article in the same issue di magazine he points out that the stance can be taken over a long per

of time without fearing side effects. But it is difficult to administer feron in good time because virus la tions are usually diagnosed rather while interferon can only protect that are still uninfected.

Unlike bacterial infections, have been successfully combated the discovery of penicillin, medicine no universal weapon against virus is

(Frankfurter Rundscl. J August

Royal Dutch are the secondlargest oil company in the world. Dutch tugs serve shipping on five oceans. The Dutch build port facilities along all those coastlines. Fokker Friendship airliners made in Holland ply short-

As a result, polio and diphtheta haul routes the world over.

Holland is too small for the Dutch.

These figures show that inorch Small wonder ABN, a Dutch bank, has prevention. branches in financial and trading

teria themselves which stimulate the centres all over the world.

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had enough interferon," say the Table gen doctors Dietrich Niethammer.

Jorn Treuner in the latest list.

Jorn Treuner in the latest list.

Umschau in Wissenschaft und Teist.

They go on to say that it is nemeless necessary to produce sufficient and the sum of the latest list.

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Recolumn Main Mainzer Landstrass it makes sense to tree it.

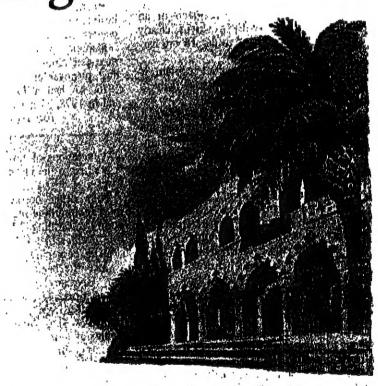
Frankfurt am Main, Mainzer Landstrasse 39 Though the condition of 7 out of 16 breast cancer patients improved after interferon treatment, in the case of a similar test with bone cancer patients is ideal for virus infections.

According to virologist Profession 6000 Frankfurt 1, P. O. B. 2645

Search Centre in Heidelberg, interest is ideal for virus infections.

According to virologist Profession 6000 Frankfurt 1, P. O. B. 2645

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Move to reduce experiments using animals

A re millions of animals pointlessly tortured and killed every year in the service of science and industry?

There are no reliable figures on animal experiments, and scientific publications that would separate the necessary from the unnecessary experiments are extremely rare.

To remedy this, Bonn Health Minister Antje Huber has instituted a DM30,000 annual research prize.

The prize will go to researchers who find new ways of replacing animal experiments by other methods and thus reducing the number of animals that are sacrificed on the altar of science.

There are as yet no logal provisions calling for statistics on animal experiments, though something of this nature is now being prepared in the European

If current plans come to fruition, records will have to be kept on the type and number of animals used in experi-These records will also have to show

whether the experiments were carried out without anaesthesia and whether the animals were exposed to considerable pain and suffering.

voluntarily trying to establish the number of animals used in experiments.

Estimates range between 7 and 14m a year, rats being the main victims.

The 300 new pharmaceuticals that come on the market every year each require about 120,000 rats and 9,000 gui-

nea pigs. Dogs and similar animals are much better off because their cost calls for economising.

them because they are indispensable for substance. certain medical experiments.

Interferon, considered to be the most Apromising substance in combating virus infections, will be produced on an industrial scale in two to three years, according to a Swiss biologist.

There were high hopes that the expensive interferon would lead to a breakthrough in the fight against cancer, but these have proved premature.

However, no one disputes that the substance checks the growth of tumours. Now Zurich molecular biologist Charles Weissmann has revealed that this year he hopes to take the first steps

tial cancer cure. He says in an article in Umschau in Wissenschaft und Technik (15/1980) that it will be produced on an industrial scale in two to three years.

Professor Weissmann recently succeeded in producing human interferon from bacteria with the help of genetic manipulation.

He intends to cultivate interferon bacteria in 3,000-litre tanks, hoping to sti-But research can hardly do without mulate them to produce the precious

. A Swedish study suggested that inter-But it would be a great help if animal foron: could lead to a cancer breakexperiments were discontinued where through the property of the continued where

Anti-tumour substance gets a boost

But this has not been confirmed by a similar study by the American Cancer

the success rate was considerably smaller: Only 3 out of 11 showed an improvement, but there were serious side effects.

Still, nobody disputes any more that interferon checks the growth of tu-

But little is known as to what therapy should be applied to which type of cancer and which type of interferon (there are many kinds) should be used in each.

Little is also known about the correct dosage because researchers need ade-

BEHAVIOUR

'Monopoly-in-reverse' game goes on the restricted list

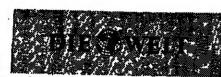
Any joke a censor understands deserves to be banned," satirist Kurt Tucholsky once said.

But the Bonn Authority for the Control of Literature Endangering Youth (BPS) is not a censorship office. Recently BPS (which is part of the Bonn Ministry for Youth and Family Affairs) for the first time put a game on the banned

Provopoly is modelled after the classical Monopoly game - deliberately so. Unlike capitalist Monopoly, Provopoly is an anti-capitalist civil war game.

The place in which brutal policemen the "blues", fight it out with the terrorist bombers of the "reds" is called "Grünstadt."

While Monopoly players try to achieve a "monopoly" with tried and true capitalist methods, Provopoly play-



infiltrate and bomb.

The instructions read like an urban guerrilla textbook: "Blue wins if the bomb and its carrier are locked in the building and the bomb is exploded never the less."

Or: "I'm here outside the dean's private lavatory together with many other people. The dean's sitting inside - a 'numerus clausus in reverse'." (numerus clausus is a reference to the quota system for admission to German universi-

It was the Bavarian Labour Ministry that filed the application for the ban-

together with a friend because he has

THE GERMAN TRIBUNE

of war.

From its inception until 1978, the

This is not so much due to a new wave of violence but to the fact that the Authority is making better use of existing legislation. Moreover, now it is not only Land ministers and senators who may apply for a banning order but also

(Dis Welt, 2 August 1980)

ning of Provopoly, which has been marketed for the past four years.

The news magazine Der Spiegel recently asked "Has the satire of it all not been understood?" The question was directed at Elke Monssen-Engberding, 29, who signed the order that put Provopoly on the index.

But Frau Monssen-Engberding is unfazed, saying that the BPS realises that certain games, especially playing cards, have their satirical component which is intended to amuse. But this very amusement attracts children and juveniles and promotes their desire to play Provopoly.

The game may now no longer be sold in shops to which juveniles have access nor may it be shown in shop windows. Fines for violations are stiff.

The banning of Provopoly under the law governing the dissemination of publications endangering youth is only one of many such cases for BPS

While in the early years of the Federal Republic of Germany this agency dealt primarily with nakedness, the emphasis since 1978 has been more on violence, glorification of the Nazi era and

BPS banned only 18 books, magazines, records, etc. for their brutalising effects, glorification of crime or racial hatred. All other publications that were put on the index were pornography. But in 1978 and 1979, of the 455 banned publications 162 were banned for promoting

all of the nation's 600 youth authorities.

Housefly SPORT

Continued from page 12 revolving on an axle in the center

So the test fly can only tun ; ts vertical axis.

cylinder.

The instrument also generals of 1980 German formula one Grand city that can be registered. If this is at Hockenhalm. Carlos Reutemann visual environment is given a paragentine, driving a Saudia Williams, black stripe on an otherwise while a second and Alan Jones of Australia, wall of the cylinder, this stripe also in a Williams, third. Jones, who the eyes of the fly and it this adds the world championship, was towards it.

This fixation reaction can be stripe finished eighth for the Arrows team in two ways. The cylinder with the second and the control of the cylinder with the second and Alan Jones of Australia, wall of the cylinder, this stripe also be seen to be seen that the second and Alan Jones of Australia, wall of the cylinder, this stripe also be coloured to enable to see the second and Alan Jones of Australia, wall of the cylinder with the second and Alan Jones of Australia, wall of the cylinder, this stripe also be coloured to enable to see the second and Alan Jones of Australia, wall of the cylinder, this stripe also have been second and Alan Jones of Australia, wall of the cylinder, this stripe also have been second and Alan Jones of Australia, wall of the cylinder, this stripe also have been second and Alan Jones of Australia, wall of the cylinder, this stripe also have been second and Alan Jones of Australia, wall of the cylinder, this stripe also have been second and Alan Jones of Australia, wall of the cylinder, this stripe also have been second and Alan Jones of Australia, wall of the cylinder with the second and Alan Jones of Australia, wall of the cylinder with the second and Alan Jones of Australia, wall of the cylinder with the second and Alan Jones of Australia, wall of the cylinder with the second and Alan Jones of Australia, wall of the cylinder with the second and Alan Jones of Australia, wall of the cylinder with the second and the cylinder with the second and Alan Jones of Australia, wall of the cylinder with the second and the cylinder with the second and the cylinder with the second

stripe can be rotated to enable to searchers to measure the "guiding a sked what he thought of Cologne tions" of the fly. tions" of the fly.

On the other hand, it is also present: "He's a nice lad, easy-going to make the fly control the most ifficiently." He was equally polite in of the cylinder through a highly stening to comment on how he rated ticated electrical system. This results as a driver: "As a matter of prina perfect simulation of free flight." I never comment on the qualities

Based on a series of such expension by colleagues as drivers." And that the Tübingen researchers have man that, to track down the various nerves lie would not, in any case, have found cessing systems with the help of the system of the colleagues as drivers. The only ronment.

One of these algorhythmical and lones could only say that he laps controls the perception of neverthe frequently, fast and without much another one the perception of partiable. Yet it would be unfair to imply while the third enables the fly to the Mass, 33, is a poor driver. rentlate between moving objects are lie is an old hand in cars of all cate-

tion to the background.

It might seem odd that such seem ly self evident abilities should require this sophisticated apparatus and extensive experiments. It would be to the seem justified to ask whether the pense this entails is warranted.

But the researchers are sping uncover the basic principles by w nervous networks are linked with a other and so find an answer to the qu tion how relatively simple base ments such as nerve calls can be of bined into such complex, high-pair mance structures as a fly's - and mately man's - brain. Walter fits

(Kölner Stadt-Anzeiger, & Aung

Jochen Mass battles on round the grand prix circuits

> could well be said to have missed his greatest opportunity when he drove for McLaren from 1975 to 1977, With McLaren his team-mates were former world champions Emerson Fittipaldi of Brazil and James Hunt of Britain, and alongside them his shortcomings were clearly apparent. Mass seems always to have had diffi-

culty in adapting to the requirements of the track. This was later his trouble with ATS, as it is now with Arrows.

And the champagne will have to wait. Indeed, one can be hope he has overcome his poor form at Brand's Hatch, where he came a mere 24th in training.

He started as last man, and in such cases all he can do is play the waiting game for which he is proverbial, gradually

Door organisation marred the finale

of the Tour of Germany just as it

had bedevilled much of the rest of

ing his way up to the front. This year he came sixth in the South African Grand Prix, peventh at Long Beach, fourth at Spain. ATS

decided to go in for Formula 1 in 1977 and progress has been slow but steady.

"Initially it was touch and go whether we were going to qualify for a race," says team-owner Gunter Schmid. "Nowadays experts agree that ours is one of the five best cars."

Five ATS cars were designed for the 1980 season, a sixth is taking shape on the drawing-board.



Monaco and second Jochen Mass . . driving not just a matter of experience.

(Photo: Sven Simon) Driver Marc Surer of Switzerland was badly injured in South Africa but has fully recovered. "In my absence the ATS has become an outstanding car," he says.

But championship points have proved elusive, and Schmid and Surer were hoping put an improved ATS through its paces in England.

Michael Oberdieck (Stuttgarter Nachrichten, 7 August 1980)

the world championships in Sallanches.

France, on 31 August, where he hopes

Star Wars at 11 o'clock every day

The young boy — he is not sure . whether he is 15 or 16 - starts the Star War at 11 o'clock sharp every morning by pushing a button.

The enemy spaceships on the screen form into squadrons. Some break out for the attack. But our boy, his face flushed with excitement, downs them one after

The whole thing takes place in an amusement hall with a shield clearly saying that youngsters under 18 are bar-

But the young spacecraft captain is not bothered by this. He comes daily to "let off steam", as he puts it.

While he shoots down spacecraft, a 14-year-old at another machine tries his hand at being a Super Road Champion. He is very clever at the game, which is not surprising considering that he plays it almost daily, spending DM60 a week, which he usually gets from grandma.

The amusement hall is rather empty at this time of the day. Apart from the two juveniles, there are a couple of older. people playing the one-armed bandit.

The attendant sits at his desk, reading a tabloid newspaper.

Asked whether he was aware that there were children playing in his establishment, he says: "That's okay as long as they stay up front. I don't permit them to play in the back where the onearmed bandits are."

In another amusement hall, a 16-yearold plays the pinball machine. He spends about DMS a day for his passion.

On the floor above, a 17-year-old ap- duct design. Headed by Professor Helprentice tries his hand at being a Space mut Krauch, the team delved into the

He is on holiday at the moment and has plenty of time for his foible. As he puts it, he does not want to just hang around and the discotheque round the

corner is too expensive. The attendant says he cannot both be at the cash register and make sure that no unauthorised people sneak in.

The 14-year-old Super Road Cham-

spent all his money.

Meanwhile, things have livened up in the amusement hall. It is now lp.m. and there are several 16 and 17-year-olds busying themselves at the one-armed bandits at the back.

The authorities say the whole thing has not yet become a serious enough problem to call for stricter controls. They stress that the staff of the amusement halls must check the age of their customers - "but of course no-one can tell whether they actually do."

Though juveniles are not the rule in such establishments, they are as dedicated players as their older brethren. Rising turnover figures show that the

business with the killer automats and one-armed bandits pays handsomely. Statistics show that in 1966 there were ten amusement halls with an annual turnover of more than DM1m. In 1976, 41 had a turnover of DM6.6m;

and in 1978, 35 made DM7.4m.

(Der Tagesspigel, 2 August 1980)

enerations of husbands have suffer-Ged from the cleaning mania of their They often become victims at the most inopportune moments, for instance during a thrilling TV movie when the

wife decides that the time has come to clean the carpet in front of the TV set. categorising the housewives according to that neighbours in rural areas are whether they lived in cities or in sub-1 more mosey and many housewire. Since the beginning of August, however, Germany's sorely tried husbands can scientifically diagnose whether their wives suffer from clinical clean-o-mania.

A study shows that the clinical case devotes at least 20 per cent of her housekeeping time to cleaning carpets, polishing floors, dusting and keeping fixtures gleaming, These facts have been established

Kassel University students studying proeveryday life of the housewife.

Supported by Professors Brigitte Wolf and Karlo Voss, the students spent 12 months researching housework. In the course of their work they discovered clean-o-mania.

The housewives involved in the study contributed their share by keeping exact records of their work. They also agreed to visits by the students.

pion leaves the amusement hall at 1 p.m. The students were not satisfied with

urbia or in the country. They also com- afraid of being considered sloppy.

American study. It turned out that most of the findings coincided.

Since working women who have to higher the education, the less higher the education, the less woman devotes to housework. an average daily housework time of five ! gent women are more untilly that

Pure housewives devote more than 40 hours, the normal working week, to their households. But they frequently overestimate the actual time they devote to

The time spent on such chores rises when a family moves from the city to the country.

interests diminish in the country behousewives are under pressure to show a line grated a community the longer that they are keeping busy. A supply the supply that they are keeping busy. A supply they are keeping busy. A supply that they are keeping busy. A supply that they are keeping busy. A supply they are keeping

others. Many of them work mon ibly and thus save time.

they devote considerably less time such chores.

This is not surprising considering week carning a living.

Germany's premier road racing event for professional cyclists. Much to the annoyance of more than 7,000 spectators at the Olympic Stadium in Munich, only two cyclists turned up for the victory ceremony. The others

failed to emerge from under the sho-The two winners who gave the fans

their due were Gregor Braun, the easy

for 7.50 DM

is too much to expect, but that is all ou

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Cyclists agree race was too difficult

overall winner of the Tour, and Werner Devos. But even Braun was far from happy, given his thumping victory: "I am shattered. Not even the three-

week Giro d'Italia was as tough as this year's Tour of Germany," He was critical of the organisers: "It was sheer madness to hold such a tough tour so soon after the other exhausting

tours in recent weeks. "The organisers need not be surprised if they fall to persuade any leading pros to enter next year."

He was particularly critical of the distances. Each stage was more than 200 km (125) miles). The fourth, from Frankfurt to Baden-Baden, was nearly 300 km (200 miles).

Braun hedged on his victory, which was clear enough. He finished more than four minutes shead of Sweden's

"It is wonderful to have won the premier race in Germany but there are others I would sooner have won and there are successes I rate more highly than this Tour of Germany. He was probably thinking ahead to

to be among the front runners. Even Bernard Hinault, considering the

Tour of Germany little more than a training session after his retirement from the Tour de France, reckons Braun is in there with a chance: "Saronni, de Viaeminck. Willems, van der Velde and Gregor Braun are the men to watch for

As for himself. Hinault will be on home ground and he naturally feels he stands a fair chance of world championship honours

Braun could well benefit in Sallanches from the rivalry between Gluseppe Saronni and Francesco Moser. Moser will be looking out for Saronni, so Braun might manage to slip through.

In professional cycling nationality is by no means the sole consideration. Team membership and the sponsor's name on the winning jersey are at least as important.

Moser and Braun seem to get on well and are staying together even now their team sponsor has pulled out of racing ("because Moser failed to win the Giro d'Italia," according to ice cream manufacturer Sanson).

Next season they will be racing under the colours of a kitchen furniture manufacturer instead. "The contract has already been signed," says Braun, sid (Bremer Nachrichten, 12 August 1980)



Why the house proud housewill develops cleaning mania

pared their results with those of an the clean-o-mania. American study. It turned out that most

housekeeping.

The reason for this is that cultural

Working women spend twice as me time doing housework over the weeke than do pure housewives. But all in

working women spend up to 40 hour Another finding is rather interest

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and GUATEMALA are soon to appear.

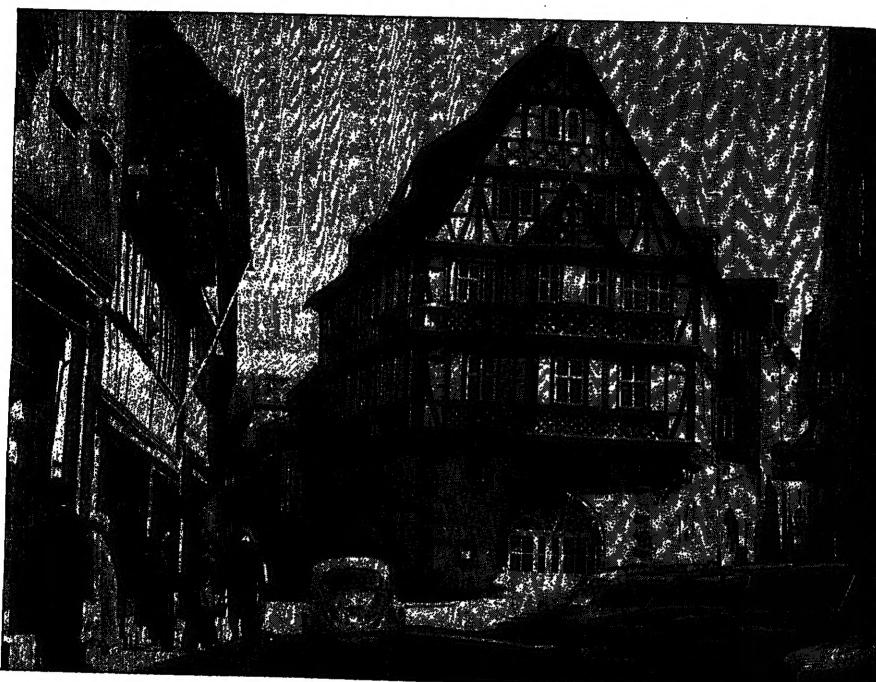
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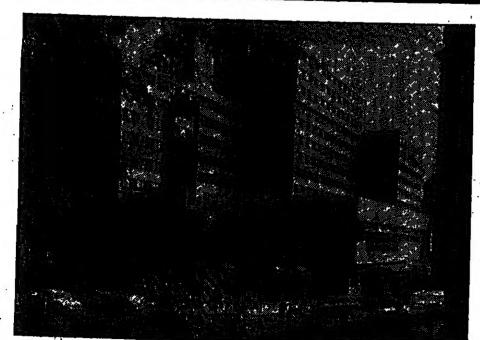
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Nowhere else in the world is the range of hotels, the hospitality so varied, so elegant, so pleasant as in Germany. You can stay in medieval surroundings or in tomorrow's world of the year 2000, whichever you please. Hotel after hotel hotels with "stars" and "golden keys"; with halftimbered frames. castle walls, towers. Romantic

courtyards, gardens, wine-cellars, swimming pools. Hotels of glass and concrete and air-conditioned throughout. Just as you're used to In New York or Toklo or Mexico City. Hotels for business people. gourmets, tourists, for the romantically inclined and for those in love. Nowhere else in the world is the range of hospitality so varied.





Hotel Riesen, Miltenberg Munich



Rising costs of fighter-bomber project hit navy, air force budgets

The escalating cost of the Tornado various weapons systems to be installed in the jets. he German Luftwaffe and navy budgets

The original basic estimate was MI5m per aircraft in this joint Gernan-British-Italian project.

Now it is DM35.26m, and that is without other costs including weapons

These increases have thrown military nditure out of normal ratio.

for example, the German navy is ally expected to spend roughly 63 cent of its budget on ships and the alning 37 per cent on aircraft.

Now the Tomado project has ensured this proportion will be almost exreversed for the next two years.

he new multi-purpose fighter bomwas presented in Wahn recently by dreas von Bülow, secretary of state in Ministry of Defence.

It is a jet which fascinates the miliand which is going to cost the taxer dear.

The basic estimate was DM15m. Now B DM35.26m. To this must be added ut DM4.5bn in "development costs" the 322 jets the Bundeswehr has ored. (At the end of the sixties, when estimated costs were still comparatilow, the Bundeswehr wanted 1,000

Then come the billions of DM for the

The Bonn Ministry of Defence has several times stated that the Tornados will only carry conventional systems and in no circumstances nuclear weapons.

This means that, in all, the cost of a Tornado plus weapons systems today is DM67.36m, This is an astonishing development considering that the Ministry of Defence was quoting DM62m in May of

The costs for the plane alone have increased by 135 per cent in the past 10 years and extra costs have risen at about

One of the reasons for this is the differences between the economies of the three partners, West Germany, Italy and the United Kingdom.

Fluctuations in exchange rates have to be taken into account, as do rates of in-

And the costs of aircraft-building materials have risen by over 170 per cent in the past decade since the Tornado was first planned.

One major cost factor is the large amount of titanium used. The price of titanium has risen by 400 per cent in the past 10 years.

The Tornado has special qualities which make it ideally suited for deployment in central Europe.

Now that certain tricky technical difficulties have been overcome, the Tornado is able to land and take off on very

This means that operations would even be possible on partly-destroyed airstrips. The jet is very fast even when flying very low and can be steered manually or automatically. This means it is able to fly under enemy radar into en-

The jet's electronic weather forecaster makes it an all-weather aircraft and its target-aligner ensures optimum accuracy.

The Tornado has been tested for over

The verdict: "This weapons system can fulfil the role assigned to it."

From 1981 onwards pilots who have so far flown Starfighters will be retrained to fly the Tornado.

The Luftwaffe and the German Navy are due to receive the first three dozen Tornados in 1982.

Whether further improvements then lead to further price increases then remains to be seen. Klaus J. Schwehn

(Frankfurter Neue Presse, 9 August 1980) Is the price

worthwhile? he people of this country were I quite prepared to accept that the costs of the multi-purpose fighter jet

level, or even faster than inflation. This is particularly so because as the British and the Italians, with their less robust economies, were taking part in

the project. So for the past ten years we have

learnt to judge the cost of this super-let in terms of its essential importance for our defence and that of our Nato allies. Originally the estimated price was

DM15m per jet. Today it is DM67m and in two years, according to cautious estimates by experts, it will be between DM100m and DM150m.

Even the most passionate supporters of these all-weather tank-destroying jets and atomic bombers will concede that this price rise cannot be explained in terms of inflation alone.

The truth is that the Tornado is becoming a kind of prototype "wonder weapon" into which the countries con-

Its electronic devices are by all ac- into this category. cannot help asking why the jet needs a pilot at all.

Some experts warned years ago that it was a mistake to neglect other forms of armament weapons systems and concentrate on one fighter jet.

But in those days politicians and military men believed that they could pay for everything: super jets, super tanks and super frigates.

Now they have got a very nasty shock they realise to their dismay that they can only pay for one "wonder weapon". And they are not even sure that it is a wonder weapon. Bernd Brügge

(Lübecker Nachrichton, 9 August 1980)

Concern over illegal arms dealing

erman-made machine guns recently turned up in Saudi Arabia, a German-made ammunition plant arrived in South Africa instead of the official destination, Paraguay.

And artillery bound for Spain found its way instead to Argentina. None of these arms supplies in any way changed the balance of power in the countries concerned. And in terms of world arms deals their importance is negligible.

Nonetheless, the fact that German arms have found their ways to these areas of tension is worrying enough.

This is not just because this runs counter to official German government policy but because it underlines once again how ineffective all the checks. controls and pious intentions are.

West Germany has some of the toughest restrictions in the world on the export of arms.

Certainly, arms exports account for only a tiny fraction of this country's total exports.

There is no basis in reality for the nightmarish idea that 35 years after the end of the war large parts of the world could be flooded with German arms.

But this is no reason to rest on our laurels and point to the severity of arms

The allegations against the Rheinmetall company underline the crooked and roundabout ways by which arms end up where they should not be.

A number of arms produced in West Germany are in high international demand. And arms dealers are resourceful. The barriers against arms deals with countries outside Nato seem to be becoming less effective.

Tornado would increase at the same The next Bonn government will have to look at the question of arms exports

It will have to ask itself whether the 1971 guidelines banning arms exports to areas of tension go far enough.

And it will have to re-think the clause stipulating that arms exported to Nato countries have to stay in those countries.

The government will also have to respond to proposals made recently by the SPD and FDP parliamentary parties. These proposals envisage the Foreign Affairs Committee of the Bundestag being given more information about government decisions on arms exports.

They would also like to see the granting of licences to produce arms made subject to controls.

Finally an aspect of the problem which is continually getting acuter: arms produced jointly with other countries are cerned are packing all the good and not subject to West German restrictions expensive equipment and devices avail- and controls. Advanced systems such as the Alpha Jet and the Tornado come

This is a serious gap in export restrictions, and it is difficult to see how it can be closed.

The seriousness of this problem becomes plain when one reads the Bonn government guidelines on development policy and the relevant section of the North-South Commission report.

In both we find constant appeals to the big arms exporters to cut their exports and to Third World arms importers to turn their attention to internal economic development

Any increase in German arms exports would be a slap in the face for all these efforts. Heinz Murmann

(Kölper Stadt-Anzeiger, 12 August 1980)

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TRADE

Groundwork laid in Peking talks

E conomic Affairs Minister Count Lambsdorff's recent talks in Peking are more than just a protocol visit although no immediate effects will be felt.

Count Lambsdorff headed a German business delegation to China. In his opening address he said that the October 1979 Sino-German trade agreement would thus gain practical importance and the slogans of intensified trade relations and promotion of joint ventures would become reality.

But no specific decisions or data to facilitate the planning of business should be expected from the talks. In fact, this was not the purpose of the mixed government commission.

But as head of the delegation, consisting of bankers and industrialists, the minister had an opportunity to reaffirm one of the main objectives of the German business community: safeguarding German investments against political

The Chinese, who view trade with the West primarily as an instrument to promote the transfer of science and technology, passed a law last year that would permit genuine joint ventures.

But there are still no implementation provisions to safeguard foreign capital from dispossession. Moreover, the transfer of capital is still restricted.

Without an agreement that would protect their investment in China, German businessmen are still hesitant to put their money into joint ventures. Yet joint ventures would be the right

instrument in reconciling German and Chinese interests.

The Germans would gain access to

Competition in the orient gets brisker

hina experts have warned time and Cagain against pinning excessive expectations on business with that country. This has now been reaffirmed by Bonn Economic Affairs Minister Count Lambsdorff heading a trade delegation in Peking, who said that Sino-German trade relations should be viewed with "realistic confidence."

Competition for this huge cake is now in full swing between the major industrial nations.

The Germans will have to stand their ground against Japan, France and Britaln. Americans, too, see their big chance in

They hope to triple exports to that country by 1985. They hold that China will step up its imports by some 20 per

This is encouraging for those companies that have been searching for new markets.

So far as dealing with Japan is concerned, the industrial nations have made many mistakes. For many, Japan has remained a mystery — and this is one mistake that should not be repeated when dealing with China,

This is a huge country that should not be seen only as a market but as a cooperation partner.

Jens Peter Eichmeier (Stuttgarfer Nachrichten, 11 August 1980)

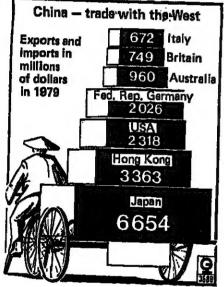


the Chinese market and the Chinese could use these joint ventures as a vehicle for the transfer of technology and management while at the same time economising on foreign exchange re-

Present growth rates in Sino-German trade are enormous. The volume of trade has been increasing at the rate of 60 to 70 per cent every quarter.

But it must be taken into account that the original trade volume was rather modest to start with (DM3.8bn in 1979).

But this does not mean that there is not an enormous potential.



re the Germans embarrassed now A that they have been accused of being less industrious than our competi-

tors on international markets? Be this as it may, 68 per cent of Germany's labour force, recent polls show, would be prepared to work two extra hours a day for the same pay should this be necessary.

This seems to disprove those union officials who have been attacking Economic Affairs Minister Count Lambsdorff for his suggestion that the Ger-

mans do not work hard enough. The true reason for our diminishing competitiveness on world markets is not our high standard of pay nor is it our short working hours, Gerd Muhr of the German Trade Unions Federation told a newspaper recently.

Herr Muhr blamed this state of affairs on the international monetary system

and those behind it. He said: "Since the abolition of the Bretton Woods System, international competitiveness has largely depended on exchange rates. Manipulation and speculation with currency rates cannot be

Still, the initial euphoria has given way to realism.

The Chinese foreign trade authority and Germany's steel, chemicals and mechanical engineering industries are now working out exact figures in an effort to arrive at the true absorbtion potential of this huge country.

China is considered a good credit risk. The Hamburg HWWA Institute for the World Economy figures that the Western industrial nations would be prepared to grant China a line of credit amounting to 25 billion dollars.

But China is reluctant at the moment to go too deeply into debt. Last year, that country restricted its trade deficit to two billion dollars.

Imports of capital goods for modernisation are to be compensated for by increased exports and by substituting Chinese-made goods for imported ones whenever possible. But this again presupposes the importation of Western capital

This is at the root of China's wish for joint ventures. As a result, the mixed German delegation hopes that some indication will be forthcoming soon that China is prepared to arrive at an agreement to protect foreign investments.

China does not yet seem to have a rigid modernisation plan. But certain priorities seem obvious and Western observers hold that the August meeting of the People's Congress (a sort of parlia-

compensated for by forgoing wages and

for relatively small

demands in the past which, coupled

with high inflation rates abroad, pro-

moted the appreciation of the deutsc-

hemark - which Count Lambsdorff

True, the trade unions do not make

the exchange rates. But they are respon-

sible for the wage policy which is one of

Ultimately, below average inflation

rates strengthen the position of a cur-

Supply and demand automatically

make for the correct exchange rate pro-

vided no support mechanisms are used.

rency on international markets.

the elements affecting prices. " his

now deplores."

Continued on page 7

for world market sales'

China urged AGRICULTURE

make an investment Da

Farmers leave the land in droves, and there's no end in sight yet

The Federal Republic of & wants to step up trade und b cooperation with China, Ronn En ore than one-quarter of Germany's Affairs Minister Count Lambda farmers have given up their farms exodus from the countryside picked up at the beginning of his trade the past 10 years to retire or to seek

He stressed that Bonn would be recently released agricultural the international subsidies rice tance sheet compiled by Bonn's Agrifinancing of exports because his large Ministry shows that the number distort free-market competition. Arms diminished by 340,000 (from Even the German balance 4,5200) between 1969 and 1979.

ments deficit since 1979, he sain This means that there are only half as reason for Bonn to change this is my farms now as there were before Count Lambsdorff praised of end. More than 3.5m farm workers

consistent monetary and financial the opted out since 1949.

It is due to this policy that he Depits this bloodletting, the agriculprovide unlimited export guarants let shrinking process is far from over. The minister called on Ching: Having slowed down during the 1974

clude an investment promotion that the farmer earns as ment with Bonn. This, he say reportion of sale price greatly increase the willingness of the sale price of the sale pri German business community to in that country.

Once the Sino-German Trafe (mission has concluded its talks as tions on experts' level should be an ued to bring about such an agreent In any event, Bonn would at promote cooperation between CE

and German firms. The minister placed particula e; sis on cooperation in the raw mir sector and suggested that a Sino-Co work group to that effect be forme!

German companies, he said, we terested in capital goods deals, r paid for with Chinese raw materi financing, however, should be left: banks, and Bonn would provide Bread etc interest subsidies.

But the Bonn government would guarantees for cooperation dals in raw materials sector that would not be tied to a credit contingent on Gen exports if the money is used for 11

German prospects are also goo

(Hannoversche Aligemeine, 12 Augus

currencies involved drifted apa

different inflation rates.

again last year.

Most endangered are the remaining 100,000 small farms with a net annual income of around DM9,000 per family In the farmers'own social and econo-

min interests, this structural change will have to continue, said Bonn Agriculture Minister Josef Ertl.

He also stressed that a minimum population density must be secured in rural areas to preserve the settlement structure of the nation. This task will be even more important in the 1980s than it has been in the past.

This shrinking process of German agriculture has been deliberately promoted through state subsidies.

After the introduction of special pensions for farmers who agreed to sell their land and state subsidies for those who are prepared to make social security payments in order to draw pensions, more than 50,000 farms covering 1.4m acres were sold. This meant that the re-

maining farms could be enlarged and operate more economically. The social position of German far-

mers has clearly improved in the past ten years, the Agriculture Ministry says. Net incomes per working family

member increased from an average of DM12,312 to DM24,780 a year. Agricultural pensions rose (married/single) DM432/288 a month during the same

But, said Herr Ertl, there is still room for improvement in agricultural social

Those farmers who have stuck to their land have a gratifyingly positive attitude towards their work, the minister said. According to a recent study, most

farmers would opt to become farmers again if given an alternative. This is so because they feel that they are under less stress farming than they

would be in other jobs and because the farm gives them an opportunity to prove and develop their abilities.

(Frankfurter Rundschau, 13 August 1980)

Agriculture Minister Josef Ertl has presented his ten-year agricultural Balance sheet balance sheet together with policy guidelines until 1990.

His report thus encompasses 20 years and might well have been presented with the forthcoming Bundestag election in mind.

Still, Herr Ertl has been in office since 1969 and is thus Bonn's longest serving farmers' and consumers' minis-

Continued from page 6

44%

44%

materials project that helps to she kut) will assign the following prioriGermany's raw materials supply.

It oil exploration, modernisation of china is very interested in General Mannes, construction of new power mining equipment. After a great delibions (especially of the water generalisting back and forth, there is not be variety), energy saving in the steel of Chinese orders to the tune of the battry and improved transport capacits (especially by rail).

cerning equipment for steel milk r. Though the Chinese still firmly here in growth and affluence through mmunism, they are pragmatic enough Aboy their technology where it is at its et, ie. in the capitalist West.

Cone are the days of home-made Trade unionist offers 'solution Hupment for reasons of ideology. What seems are financial self-restrictions M practical difficulties.

for instance, there is no backup for sticated foreign plant and equip-Hal In addition, China is short of But even in the European and labour and management.

system, which makes for monthly and the standard of living of the blamed for relatively small warms.

But even in the European standard of Agriculture offers an enormous potentially exchange rates have had to be standard of living of the justed because the internal values of the standard of living of the justed because the internal values of the standard of living of the justed because the internal values of the standard of living of the justed because the internal values of the standard of living of the standard of living of the justed because the internal values of the standard of living of the justed because the internal values of the standard of living of entiliser. In 1978 alone it spent 500 million dollars for this purpose.

Granted, German goods and sense that the strategy of substitutional markets due to the appreciated the deutschemark.

Germany's wages now top the sports of finished products.

But the conclusion drawn by Gerd is tainted by typical trade union is tainted to the errection of huge fertiliser to the e

all mixed commissions - can point to Bonn's spearhead role in liberalising the

European Community's trade. Since the beginning of this year China has been counted among the developing countries with all the tariff preferences for exports to the EEC this en-

There are parallels to other countries with a state-controlled economy. Though most tariff positions have been liberalised (more than 90 per cent) much of the goods offered by China (40 per cent) fall in the sensitive category for which the West considers import restrictions to be a must, Hans D. Barbler

(Süddeutsche Zeitung, 7 August 1980)

outlines the decade

ter. As a result, his report is backed by plenty of experience.

Our farmers, too, have been faced with experience - of a bitter nature notwithstanding billions worth of subsidies to support agricultural prices and despite massive overproduction.

There is no major branch of our economy that has been more enthusiastic about mechanisation and so consistent in approving of rationalising jobs away. One in four farmers has taken anot-

her job since 1970. Herr Erti's balance sheet shows that our farmers do not only complain and

demand more and more for themselves. They know that it is impossible to secure jobs unless farming remains competitive. There are branches of business that tend to forget this.

(Lübecker Nachrichten, 8 August 1980)

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Draining soil with blast of air

You can do almost anything with compressed air. Pneumatic devices can drill, grind, tighten screws, redirect fish, keep oil ports clean and shipping lanes free of ice.

Now, a Bad Kreuznach citizen is using compressed air in farming - and it looks as if his method will soon conquer the world.

The whole thing began with an annoying problem. When Eugen Zinck wanted to dig up his garden he found that the soil was full of water: the vibration of nearby construction machinery had so compressed the soil that rainwater could no longer seep away.

Herr Zinck - he holds more than 20 patents - had a brilliant idea; why not send compressed air into the soil?

He built a kind of airgun with a long pipe which he embedded in the ground. When he pulled the trigger, there was a loud plop, the surface of the soil lifted a couple of inches and a geyser of water

The air smelled of some noxious gas. But below the surface there was a clearly audible sound as if a plug had been pulled out of a drain. The water ran off and the garden was ready for planting.

Now, after another year of tinkering with his apparatus, Herr Zinck can clearly demonstrate what happens. To enable the soil to breathe after it has been cleared by pneumatic pressure, he now loads his airgun with small plastic pellets which he shoots into the soil.

When the soil is dug over enybody can see that the pellets have spread over an area of several square metres.

Eugen Zinck; "Any soil aerated in such a way needs only a superficial loosening of the surface as farmers used to do for thousands of years before deep ploughing became necessary."

Herr Zinck is an expert on agriculture, having spent 30 years in development work for the Max Planck Institute for Agriculture and then on his own

Researchers have long suspected that deep ploughing and fertilisers are harmful. Agricultural yields are diminishing, and to counter this farmers plough ever deeper, use ever increasing quantities of chemicals and compress the land with excessively heavy machinery. In doing so, they destroy their own soil.

Herr Zinck's invention not only makes for a more ecology-conscious way of farming but also for much more economy because less money is needed for agricultural machinery, chemicals, fuel, ejectricity, etc. Moreover, the soil is re-

The Research Institute for Viticulture in Geisenheim on the Rhine has certified that Herr Zinck's pneumatic proce the soil.

Another major advantage is that the

food thus produced is much healthler. The Rhineland-Palatinate Viticulture Ministry has also shown great interest in

the project. Eugen Zinck expects his device to be ready for mass production early next

There is much demand throughout the world - especially in dry countries such as Israel and Nigeria.

Such as Israel and Nigeria.

Ulrich Schmidt

(Die Zeit, 8 August 1980)